

CLAIMS

1. A lancing apparatus comprising a lancet holder for retaining a lancet, the lancet holder being moved in a lancing direction from a standby position to a lancing position together with the lancet so as to cause the lancet to stick into an object, the lancet being inserted into the lancet holder in a retreating direction opposite to the lancing direction, thus to be retained by the lancet holder, wherein the lancet holder includes a first member and a second member that are movable relative to each other, the first and the second members being relatively moved so as to fix the lancet.
2. The lancing apparatus according to claim 1, wherein at least either of the first and the second members applies a pressing force to the lancet for fixing the lancet.
3. The lancing apparatus according to claim 2, wherein, when loading the lancet, the first member relatively moves with respect to the lancet, while the second member moves together with the lancet with respect to the first member in the retreating direction from a first position toward a second position, and wherein the lancet holder applies a greater pressing force to the lancet when the second member is located at the second position than when the second member is at the first position.

4. The lancing apparatus according to claim 3, further comprising fixing means that applies a pressing force to the lancet for fixing the lancet when the second member is at the second position.

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5. The lancing apparatus according to claim 4, wherein the first and the second members respectively include a first engaging portion and a second engaging portion that are engaged with each other when the second member is at the
10 second position, and that constitute the fixing means.

6. The lancing apparatus according to claim 5, wherein at least one of the first and the second engaging portions is projecting toward the other of the first and the second
15 engaging portions.

7. The lancing apparatus according to claim 5, wherein one of the first and the second engaging portions comprises a recess, and the other of the first and the second engaging
20 portions comprises a projection to be fitted into the recess.

8. The lancing apparatus according to claim 3, wherein the first member includes a pressing portion that applies a pressing force to the lancet, and

25 wherein the second member includes a working portion that displaces at least a part of the pressing portion from the lancet when the second member is located at the first position or between the first position and the second

position.

9. The lancing apparatus according to claim 8, wherein the pressing portion includes a pair of movable portions,

5 wherein a gap is provided between the pair of movable portions for allowing the working portion to move, and

 wherein the gap is expanded when the working portion moves through the gap, so that at least a part of the movable portions is displaced so as to separate from the
10 lancet.

10. The lancing apparatus according to claim 9, wherein at least one of the movable portions includes at least one cutaway that defines a part of the gap, and that the working
15 portion fits into.

11. The lancing apparatus according to claim 10, wherein said at least one cutaway comprises a first cutaway portion into which the working portion is fitted in fixing the
20 lancet, and a second cutaway portion into which the working portion is fitted in discharging the lancet.

12. The lancing apparatus according to claim 10, wherein said at least one cutaway comprises a cutaway portion
25 arranged to make the gap continuously or incrementally narrower when the working portion relatively moves with respect to the first member in the lancing direction.

13. The lancing apparatus according to claim 12, wherein the cutaway portion includes a tapered portion that makes the gap wider continuously as proceeding in the lancing direction.

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14. The lancing apparatus according to claim 12, wherein the cutaway portion includes at least one stepped portion that makes the gap wider sequentially as proceeding in the lancing direction.

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15. The lancing apparatus according to claim 12, wherein the cutaway portion includes a tapered portion that makes the gap wider continuously as proceeding in the lancing direction, and also includes at least one stepped portion that makes the gap wider sequentially as proceeding in the lancing direction.

16. The lancing apparatus according to claim 8, wherein the pressing portion includes a fixed portion and a movable portion,

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wherein a gap is provided between the fixed portion and the movable portion for allowing the working portion to move, and

wherein the gap is expanded when the working portion moves through the gap, so that at least a part of the movable portions is displaced so as to separate from the lancet.

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17. The lancing apparatus according to claim 1, wherein the second member includes a pair of movable portions for holding the lancet therebetween, and

wherein the movable portions are displaced away from the lancet when the second member is relatively moved with respect to the first member in the lancing direction, but displaced toward the lancet when the second member is relatively moved with respect to the first member in the retreating direction.

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18. The lancing apparatus according to claim 17, wherein the lancet comprises a recess, and

wherein the movable portion comprises an engaging portion to be engaged with the recess.

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19. The lancing apparatus according to claim 1, further comprising a pushing member that moves the second member in the lancing direction.

20 20. The lancing apparatus according to claim 19, wherein the pushing member includes a working portion that interferes with the second member and an operating portion to be manipulated so as to move the working portion.